

# BENCH TOP FREEZE DRYER



# BENCH TOP FREEZE DRYER

An ideal fit equipment for laboratory with a market proven design and the most advanced microprocessor control available on benchtop unit. It exceeds customer demand and is cost effective. It has Eco-friendly CFC free refrigeration system and provides higher performance.

Used in Laboratory, Research, Proteins, Organic Tissues, Waste Products, Plant Material, Polymers, Pharmaceuticals, Nutraceuticals, Plant material.

Also known as Benchtop Freeze Dryer, Tabletop Lyophilizer, Laboratory Benchtop Freeze Dryer, Laboratory Tabletop Lyophilizer, Benchtop Lyophilizer, Laboratory Benchtop Lyophilizer, Standard Freeze Dryer, Manifold Freeze Dryer, Top Press Freeze Dryer, Top Press with Manifold Freeze Dryer, T-Manifold Freeze Dryer.

## FDR11 BENCH TOP FREEZE DRYER

7 Inch color touch control LCD display

Display run time & vacuum parameter

The cold trap with freezing function eliminates the low temperature refrigerator

Imported compressor, high capability of water-capture, low noise

Mixed refrigerant, green environmental protection

Built-in heat exchanger effectively reduces the temperature of cold trap

Anti-return oil vacuum pump to prevent the pollution of the material

Transparent bell-cap drying room is safe and visual

Optional distribution defrosting function

Optional nitrogen inflating valve



## SPECIFICATIONS

Model	FDR11-3ST	FDR11-3MF	FDR11-3TP
Type	Standard	Manifold	Top Press
Plate Load Capacity	1.5 L		-
Tray Diameter	200 mm		
Condenser Temperature	<50°C		
Water Holding Capacity	3 Kg/24 h		
Freeze Drying Surface Area	0.12 m <sup>2</sup>		-
Vacuum Degree	<10 Pa		
Vial φ 22	260		165
Vial φ 16	480		285
Vial φ 12	920		560
Interlayer Spacing	70 mm		
Overall Dimension (mm)	500x400x370 mm		-
Power	850 W		-
Power Supply	220 V 50 HZ /110 V 60 Hz		
Flask	-	8	-
No of Sealed Valves	-	-	-

Model	FDR11-3TM	FDR11-3TF
Type	Top Press with Manifold	T-Manifold

Plate Load Capacity	1 L	
Tray Diameter	200 mm	-
Condenser Temperature	<50°C	
Water Holding Capacity	3 Kg/24 h	
Freeze Drying Surface Area	0.092 m <sup>2</sup>	
Vacuum Degree	<10 Pa	
Vial $\phi$ 22	165	-
Vial $\phi$ 16	285	-
Vial $\phi$ 12	560	-
Interlayer Spacing	70 mm	-
Overall Dimension (mm)	500x400x370 mm	
Power	850 W	
Power Supply	220 V 50 HZ /110 V 60 Hz	
Flask	8	-
No of Sealed Valves	-	24 pieces for 24 ampoules

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	For Models
LS52829	Swing-out Rotor – Adapter	4xCorning T-75 cm <sup>2</sup> Canted-Neck Cell Culture Flasks		All
LS52855	Swing-out Rotor – Adapter	20x50 ml		All
LS52868	Swing-out Rotor – Adapter	48x15 ml		All
LS52777	Swing-out Rotor – Adapter	Blood collection tube	96x2-7ml	FDR11-3MF, FDR11-3TM
LS52790	Swing-out Rotor – Adapter	Radio-immunity tube	148x5 ml	FDR11-3MF, FDR11-3TM
LS52803	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle		FDR11-3MF, FDR11-3TM
LS52816	Swing-out Rotor – Adapter	Falcon conical bottle	4x175/225 ml	FDR11-3MF, FDR11-3TM



FDR11-3ST



FDR11-3MF



FDR11-3TP



FDR11-3TM



FDR11-3TF

# ***Centrifugen***

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